

CNM - Proposal System

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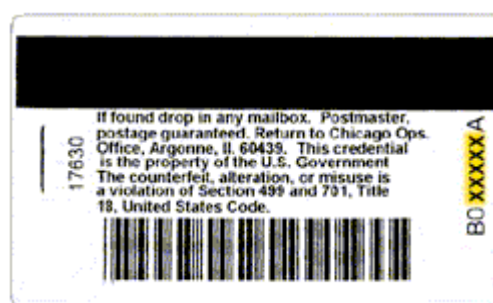
Your badge number appears on the back of your badge, below and to the right of the magnetic strip. Use the third through seventh digits of this number.

Logon

Badge No.:

Password:

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New to CNM ? Then register through the [User facilities registration system](#) to obtain or activate your badge number.

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General

Experimenters

Abstract

Description Of Research

Safety

Instruments

CNM : 189

Logged In User :

Title			
How many visits needed to complete experiment		(e.g. 999.9)	
How many days per visit		(e.g. 999.9)	
Time frame for entire project (months)		(e.g. 999.9)	

Scheduling Period

Unsuitable Experiment Dates

to(MM/DD/YYYY)

to(MM/DD/YYYY)

to(MM/DD/YYYY)

Scientific Theme : Select the appropriate thrust area associated with your experiment.

☒ Electronic & Magnetic Materials & Devices

☐ NanoBio Interfaces

☐ Nanofabrication

☐ Nanophotonics

☐ Theory

☐ X-Ray Imaging & Scattering

Are you collaborating with CNM personnel in performing this work or experiment ?

Yes

No

Do you plan to perform this work or experiment with assistance from CNM personnel (Prior permission is required to work without assistance) ?

Yes

No

Is it acceptable to disclose scientific content of this proposal to CNM personnel prior to experimental approval ?

Yes

No

Have you contacted CNM scientific staff to discus the feasibility of your proposal ?

Yes

No

Contact Name(s)

Pressing SAVE will allow you to save this proposal and continue to make changes.

Save

Next

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6/29/06 5:35 PM

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General

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Instruments

CNM : 189

Logged in User :

Principal Investigator/Spokesperson: Use [Find](#) or complete all fields

Badge:

First Time User:

Title

First Name

MI

Last Name

Phone

Fax

Email

Affiliation

Street

City

State

Zip

Country

Collaborators Coming to CNM:

Delete	Badge (If available)	First Time User	Title	First	MI	Last	Affiliation	Street	City	State	Zip	Country	Phone	Fax	Email
Find		<div></div>													
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Collaborators **Not** Coming to CNM:

Delete	Badge (If available)	First Time User	Title	First	MI	Last	Affiliation	Street	City	State	Zip	Country	Phone	Fax	Email
Find		<div></div>													
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Please type your abstract in the space below.
--- Maximum 2000 characters (approx. 250 words) ---

Characters Remaining :

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General	Experimenters	Abstract	Description Of Research	Safety	Instruments
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CNM : 189	Logged In User :
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Please type your research description in the space below or attach **PDF** document(s) to this proposal.
[Click here to attach/detach files](#)

Please provide sufficient details about your program or experiment to justify your time request.

1. Describe the scientific or technical purpose and the importance of the proposed research (500 words or 4,000 characters).

Characters Remaining : 4000

2. Why do you need the CNM for this research (100 words or 800 characters)?

Characters Remaining : 800

3. Why do you need the equipment/capabilities you have chosen (100 words or 800 characters)?

Characters Remaining : 800

4. Describe the participant's previous experience relevant to the proposal and describe the experimental results obtained (500 words or 4,000 characters).

Characters Remaining : 4000

5. Describe the proposed experiment including samples and procedures and explain the basis for your estimate of the amount of time needed (500 words or 4,000 characters).

Characters Remaining : 4000

6. References, including relevant publications (1,000 characters)

<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	
Characters Remaining : <input type="text" value="1000"/>	
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FOR WORK DONE ONLY AT THE CNM

Will this experiment involve a Class 3 or Class 4 laser ?

YesNo

Will this experiment involve the use of carcinogens, mutagens, or teratogens ?

YesNo

If yes, please identify the chemicals

Will you be bringing human tissue/materials/cells to the CNM ?

YesNo

If yes, have these samples been approved by your home institution's Institutional Review Board ?

YesNo

Will you be bringing samples that fall under Biosafety Level 2,3 or 4 ?

YesNo

Will you be bringing samples with agents that fall under the list of select etiological agents ?

YesNo

(see the [List Of Agents](#) covered under appendix A 42 CFR 72.6)

Research samples used in this project will be :

Synthesized at CNM Supplied by user with additional process at CNM Wholly supplied by user, only characterized at CNM

Additional Safety Comments : (limit 500 characters)

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General	Experimenters	Abstract	Description Of Research	Safety	Instruments
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Select the capabilities you will use for your proposed visit to CNM (this cycle only)		
NanoBio Interfaces <ul style="list-style-type: none"> <input type="checkbox"/> 3-probe cell <input type="checkbox"/> Cyclic potentiometry <input type="checkbox"/> Double-layer capacitance <input type="checkbox"/> Electrochemical analytical system <input type="checkbox"/> Electrodeposition <input type="checkbox"/> Electron paramagnetic resonance <input type="checkbox"/> Functionalization electrochemical <input type="checkbox"/> Functionalization photochemical <input type="checkbox"/> PECVD nanocrystalline & diamond <input type="checkbox"/> Post-self-assembly processing <ul style="list-style-type: none"> <input type="checkbox"/> dip-coating <input type="checkbox"/> external field <input type="checkbox"/> spin-coating <input type="checkbox"/> ultrasound <input type="checkbox"/> Radiolysis system <input type="checkbox"/> Rheological analysis <input type="checkbox"/> Surface modification of nanoparticles <input type="checkbox"/> Synthesis of metal nanoparticles <input type="checkbox"/> Synthesis of metal oxide nanoparticles <input type="checkbox"/> Synthesis of quantum dots <input type="checkbox"/> Thermal analysis 	Electronic & Magnetic Materials & Devices <ul style="list-style-type: none"> <input type="checkbox"/> Alternating gradient magnetometer <input type="checkbox"/> Brillouin spectrometer <input type="checkbox"/> CSD of PbZrTi1-xO3 <input type="checkbox"/> Electrical characterization <input type="checkbox"/> Electron-beam evaporation <ul style="list-style-type: none"> <input type="checkbox"/> Al <input type="checkbox"/> Au <input type="checkbox"/> Pt <input type="checkbox"/> MOCVD of PbZrTi1-xO3 <input type="checkbox"/> Normal and diffracted magneto-optic Kerr effect <input type="checkbox"/> PPMS magnetometer and magnetotransport <input type="checkbox"/> Raman spectrometer <input type="checkbox"/> SQUID magnetometer <input type="checkbox"/> Scanning probe microscope <ul style="list-style-type: none"> <input type="checkbox"/> Contact or tapping mode <input type="checkbox"/> Magnetic Force <input type="checkbox"/> Piezoforce <input type="checkbox"/> UHV growth chamber <input type="checkbox"/> Vibrating sample magnetometer <input type="checkbox"/> X-Ray diffractometer <ul style="list-style-type: none"> <input type="checkbox"/> High resolution four-circle <input type="checkbox"/> Powder theta-theta <input type="checkbox"/> Reflectivity 	Nanofabrication <ul style="list-style-type: none"> <input type="checkbox"/> Barrel asher system <ul style="list-style-type: none"> <input type="checkbox"/> Ar <input type="checkbox"/> CF4 <input type="checkbox"/> N2 <input type="checkbox"/> O2 <input type="checkbox"/> Electroforming <ul style="list-style-type: none"> <input type="checkbox"/> Au <input type="checkbox"/> Cu <input type="checkbox"/> Ni <input type="checkbox"/> Pt <input type="checkbox"/> Filmetrics reflectometer <input type="checkbox"/> Karl Suss MA6 aligner <input type="checkbox"/> Oriel exposure tool <input type="checkbox"/> Plasma Sciences reactive ion etcher <ul style="list-style-type: none"> <input type="checkbox"/> CF4 <input type="checkbox"/> CH4 <input type="checkbox"/> CHClF2 <input type="checkbox"/> CHF4CF3 <input type="checkbox"/> O2 <input type="checkbox"/> Raith 150 <input type="checkbox"/> Resist processing: spin coating and bake <input type="checkbox"/> Silicon anisotropic etching, membrane fabrication <input type="checkbox"/> Tencor Alpha Step 500 profilometer <input type="checkbox"/> Wet etching
Nanophotonics <ul style="list-style-type: none"> <input type="checkbox"/> Aperture NSOM <ul style="list-style-type: none"> <input type="checkbox"/> CW laser excitation <input type="checkbox"/> ultrafast laser excitation <input type="checkbox"/> Apertureless NSOM <ul style="list-style-type: none"> <input type="checkbox"/> CW laser excitation <input type="checkbox"/> ultrafast laser excitation <input type="checkbox"/> Ultrafast transient absorption 	X-Ray Imaging & Scattering <ul style="list-style-type: none"> <input type="checkbox"/> Collaboration on access to synchrotron microbeam techniques <ul style="list-style-type: none"> <input type="checkbox"/> Fluorescence <input type="checkbox"/> Scattering Diffraction <input type="checkbox"/> Transmission <input type="checkbox"/> Early nanoprobe instrument 	Theory <ul style="list-style-type: none"> <input type="checkbox"/> Collaboration on access to LCRC <input type="checkbox"/> Density-functional-based tight-binding electronic structure package <input type="checkbox"/> MPI-based parallel versions of the nanophotonics and tight-binding codes <input type="checkbox"/> Time-domain nanophotonics simulation package <input type="checkbox"/> Web-based magneto-optic simulation package
If you are interested in the use of other ANL facilities, you must submit a separate proposal through the appropriate system. <ul style="list-style-type: none"> <input type="checkbox"/> Electron Microscopy Center (EMC) <input type="checkbox"/> Advanced Photon Source (APS) <input type="checkbox"/> Intense Pulsed Neutron Source (IPNS) 		
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